

Rapidly-dissolving tablets prodn., maintaining shape during dispensing and transportation - comprises tableting humidified mixt. of dried active drug, water-soluble binder and water-soluble filler, then drying

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Patent Information

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Abstract

JP08291051 A: Prodn. of rapidly-dissolving tablets by (1) tableting dried materials of active ingredients, water-soluble binder, and water-soluble filler with minimum pressure capable to maintain form for following process; (2) humidifying resultant tablets, partic. only surface of tablets; and (3) drying humidified tablets. Also claimed are tablets prepd. by aforementioned process. Water-soluble binder is polyvinylpyrrolidone, hydroxypropylcellulose, hydroxypropylmethylcellulose, polyvinyl alcohol, methylcellulose, pullulan, agar, gelatin and/or Na alginate. Water-soluble filler is sugar alcohol and/or a sugar. ADVANTAGE - Tablets have rapid dissolution and strength for maintaining forms during transportation and dispensing. In an example, a mixt. of 100 pts. wt. of dihydrocodeine phosphate, 865 pts. wt. of erythritol, 10 pts. wt. of aspartame, 20 pts. wt. of PVP and 5 pts. wt. of Mg stearate was tabletted with 0.1-2.0, pref. 0.2-1.0 t/square, cm, humidified at 10-60, pref. 30-40 deg. C and RH 50-100, pref. 70-95 % for 0.5-30, pref. 0.5-5 min., and dried at 50 deg. C for 30 min. The tablets had hardness of 3.5-4.8 kg and dissolved in 8-12 secs. While, control gp. tabletted with 2.0 t/square cm showed hardness of 2.5-3.2 kg and dissolved in 120-155 sec. Similar tablets tabletted with 0.3 t/square cm without humidifying process showed hardness of 0.2-0.5 kg and dissolved in 7-12 sec. (Dwg. 0/5)

JP2919771 B: Prodn. of rapidly-dissolving tablets by (1) tableting dried materials of active ingredients, water-soluble binder, and water-soluble filler with minimum pressure capable to maintain form for following process; (2) humidifying resultant tablets, partic. only surface of tablets; and (3) drying humidified tablets. Also claimed are tablets prepd. by aforementioned process. Water-soluble binder is polyvinylpyrrolidone, hydroxypropylcellulose, hydroxypropylmethylcellulose, polyvinyl

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